

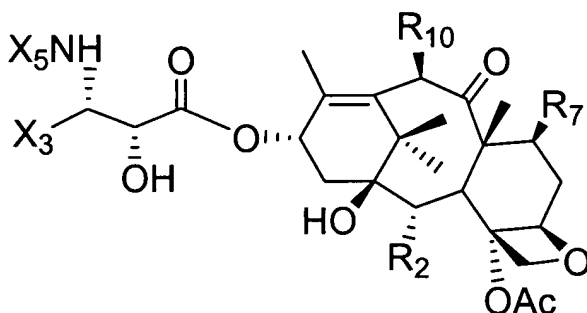
Express Mail No. EV 432654606 US

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application.

### Listing of Claims:

1. (currently amended) A method of inhibiting tumor growth in a mammal, said method comprising administering a therapeutically effective amount of a composition comprising at least one pharmaceutically acceptable carrier and a taxane having the formula



wherein

$X_3$  is 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, isopropyl, isobutenyl, cyclopropyl, cyclobutyl or cyclopentyl;

$X_5$  is  $-COX_{10}$  and  $X_{10}$  is 2-furyl, 2-thienyl, 3-pyridyl, 4-pyridyl, n-propyl, isobutyl, or butenyl ~~or isobutenyl~~ or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is ethyl, n-propyl, isopropyl or isobutyl;

$R_2$  is benzoyloxy;

$R_7$  is  $R_{7a}COO-$ ;

$R_{10}$  is hydroxy; and

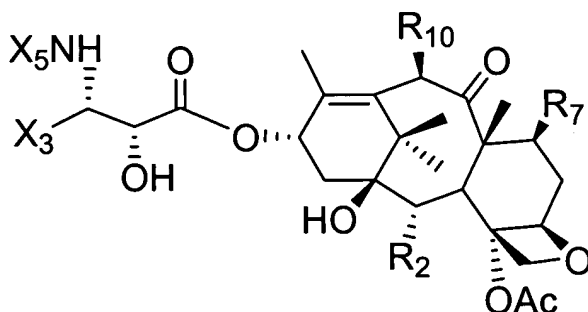
$R_{7a}$  is heterosubstituted methyl.

2. (original) The method of claim 1 wherein  $X_3$  is 2-thienyl or 3-thienyl.

3. (original) The method of claim 1 wherein  $X_3$  is 2-furyl or 3-furyl.

Express Mail No. EV 432654606 US

4. (original) The method of claim 1 wherein  $R_{7a}$  is acetoxymethyl, methoxymethyl, phenoxymethyl, ethoxymethyl or methylthiomethyl.
5. (original) The method of claim 4 wherein  $X_3$  is 2-furyl or 3-furyl.
6. (original) The method of claim 4 wherein  $X_3$  is 2-thienyl or 3-thienyl.
7. (previously presented) A method of inhibiting tumor growth in a mammal, said method comprising administering a therapeutically effective amount of a composition comprising at least one pharmaceutically acceptable carrier and a taxane having the formula



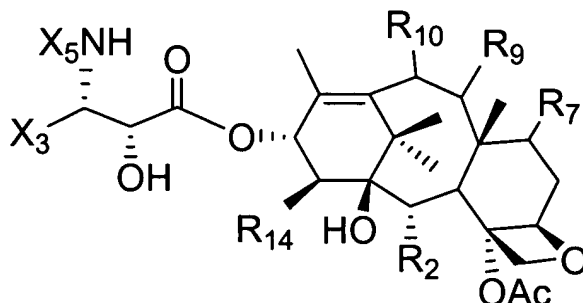
wherein

- $X_3$  is 2-furyl or 2-thienyl;
- $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is t-amyl;
- $R_2$  is benzoyloxy;
- $R_7$  is  $R_{7a}\text{COO}-$ ;
- $R_{10}$  is hydroxy; and
- $R_{7a}$  is methoxymethyl or acetoxymethyl.

8. (original) The method of claim 7 wherein  $R_{7a}$  is methoxymethyl.
9. (original) The method of claim 7 wherein  $X_3$  is 2-furyl.
10. (original) The method of claim 7 wherein  $X_3$  is 2-thienyl.

Express Mail No. EV 432654606 US

11. (original) A method for preparing a pharmaceutical composition comprising mixing at least one nonaqueous, pharmaceutically acceptable solvent and a taxane having the formula



wherein

$R_2$  is acyloxy;

$R_7$  is heterosubstituted acetate;

$R_9$  is keto, hydroxy, or acyloxy;

$R_{10}$  is hydroxy;

$R_{14}$  is hydrido or hydroxy;

$X_3$  is substituted or unsubstituted alkyl, alkenyl, alkynyl or heterocyclo;

$X_5$  is  $-COX_{10}$ ,  $-COOX_{10}$ , or  $-CONHX_{10}$ ;

$X_{10}$  is hydrocarbyl, substituted hydrocarbyl, or heterocyclo; and

Ac is acetyl.

12. (original) The method of claim 11 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl or 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

13. (original) The method of claim 11 wherein  $R_7$  is  $R_{7a}COO^-$  and  $R_{7a}$  is a heterosubstituted methyl wherein the heteroatom is substituted to form a heterocyclo, alkoxy, alkenoxy, alkynoxy, aryloxy, hydroxy, protected hydroxy, oxy, acyloxy, nitro, amino, amido, thiol, ketal, acetal, ester or ether.

Express Mail No. EV 432654606 US

14. (original) The method of claim 11 wherein  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

15. (original) The method of claim 11 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl or 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl,  $R_7$  is  $R_{7a}\text{COO}-$  and  $R_{7a}$  is a heterosubstituted methyl wherein the heteroatom is substituted to form a heterocyclo, alkoxy, alkenoxy, alkynoxy, aryloxy, hydroxy, protected hydroxy, oxy, acyloxy, nitro, amino, amido, thiol, ketal, acetal, ester or ether.

16. (original) The method of claim 11 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl or 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl,  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

17. (original) The method of claim 11 wherein  $R_7$  is  $R_{7a}\text{COO}-$ ,  $R_{7a}$  is a heterosubstituted methyl wherein the heteroatom is substituted to form a heterocyclo, alkoxy, alkenoxy, alkynoxy, aryloxy, hydroxy, protected hydroxy, oxy, acyloxy, nitro, amino, amido, thiol, ketal, acetal, ester or ether,  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-\text{COOX}_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

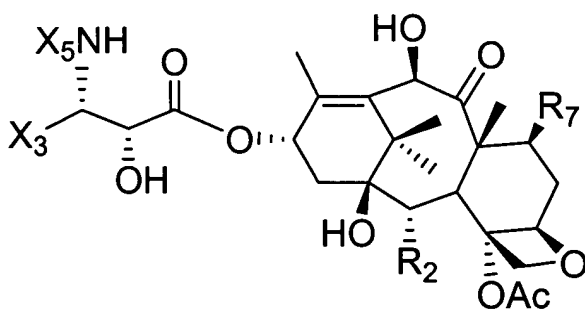
18. (original) The method of claim 11 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl,  $R_7$  is  $R_{7a}\text{COO}-$ ,  $R_{7a}$  is a heterosubstituted methyl wherein the heteroatom is substituted to form a heterocyclo, alkoxy, alkenoxy, alkynoxy, aryloxy, hydroxy, protected hydroxy, oxy, acyloxy, nitro, amino, amido, thiol, ketal, acetal, ester or ether,  $X_5$  is  $-\text{COX}_{10}$  and  $X_{10}$

19. (original) The method of claim 13 wherein X<sub>3</sub> is 2-furyl, 3-furyl, 2-thienyl or 3-thienyl.

20. (original) The method of claim 14 wherein X<sub>3</sub> is 2-furyl, 3-furyl, 2-thienyl or 3-thienyl.

21. (original) The method of claim 19 wherein  $R_7$  is  $R_{7a}COO^-$  and  $R_{7a}$  is a heterosubstituted methyl wherein the heteroatom is substituted to form an alkoxy or acyloxy.

22. (new) A taxane having the formula



wherein

R<sub>2</sub> is benzoyloxy;

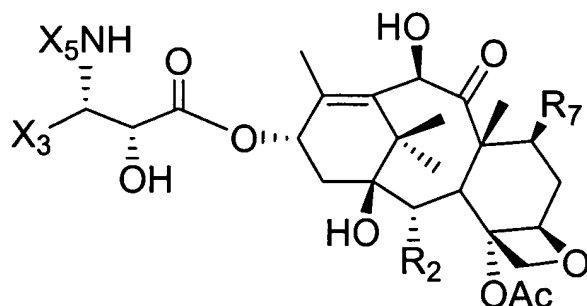
R<sub>7</sub> is R<sub>7a</sub>COO- and R<sub>7a</sub> is acetoxymethyl, methoxymethyl, or phenyloxymethyl;

X<sub>3</sub> is 2-furyl; and

**X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> is isobutenyl.**

23. (new) A taxane having the formula

Express Mail No. EV 432654606 US



wherein

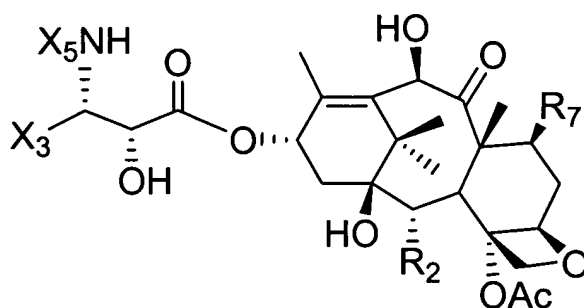
R<sub>2</sub> is benzoyloxy;

R<sub>7</sub> is R<sub>7a</sub>COO<sup>-</sup> and R<sub>7a</sub> is acetoxymethyl or methoxymethyl;

X<sub>3</sub> is 2-furyl; and

X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is t-amyl or t-butyl.

24. (new) A taxane having the formula



wherein

R<sub>2</sub> is benzoyloxy;

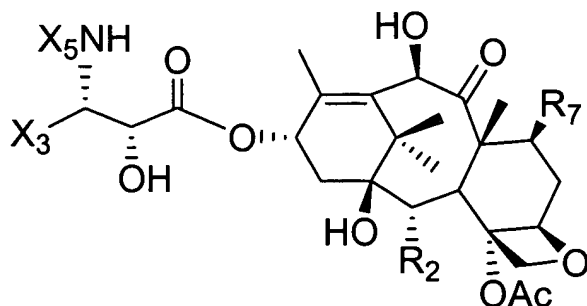
R<sub>7</sub> is R<sub>7a</sub>COO<sup>-</sup> and R<sub>7a</sub> is phenyloxymethyl, ethoxymethyl, or methylthiomethyl;

X<sub>3</sub> is 2-furyl;

X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is t-butyl.

25. (new) A taxane having the formula

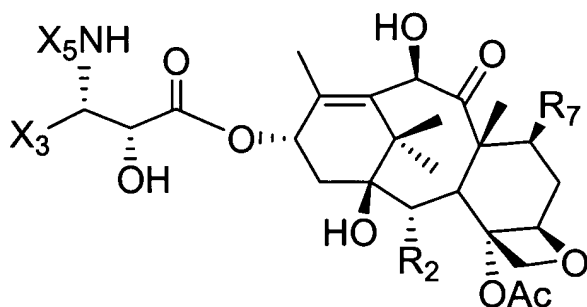
Express Mail No. EV 432654606 US



wherein

- R<sub>2</sub> is benzoyloxy;
- R<sub>7</sub> is R<sub>7a</sub>COO<sup>-</sup> and R<sub>7a</sub> is phenyloxymethyl;
- X<sub>3</sub> is 2-furyl; and
- X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> is propenyl.

26. (new) A taxane having the formula



wherein

- R<sub>2</sub> is benzoyloxy;
- R<sub>7</sub> is R<sub>7a</sub>COO<sup>-</sup> and R<sub>7a</sub> is methoxymethyl or phenyloxymethyl;
- X<sub>3</sub> is 2-furyl; and
- X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> trans-propenyl.